

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Vale et al.

FILED: July 31, 2001

SERIAL NO.:

FOR: Urocortin Proteins and
Uses Thereof

§ ART UNIT:
§
§
§ EXAMINER:
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§
§ DOCKET:
§ D 6 3 3 4

The Honorable Commissioner of Patents
BOX PATENT APPLICATION
Washington, D.C. 20231

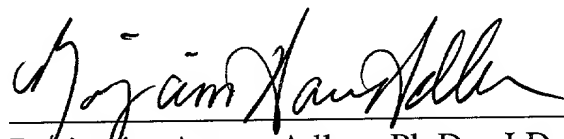
COMPLIANCE OF REQUIREMENTS FOR PATENT APPLICATIONS
CONTAINING NUCLEOTIDE AND/OR AMINO ACID SEQUENCE
DISCLOSURES

Dear Sir:

Applicant provides a computer readable form of the Sequence Listing on the enclosed 3.5 inch disk and a paper copy thereof for the above-referenced application. The disk is a 1.44 Mb DOS-formatted disk. The file is stored as D6334SEQ in text format. I hereby state that the content of the paper copy of the Sequence Listing filed as part of the above-captioned application and the enclosed computer readable copy of the Sequence Listing are the same.

Respectfully submitted,

Date: July 31, 2001
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SEQUENCE LISTING

<110> Vale, Wylie Walker Jr.
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Hogenesch, John Beren
Sawchenko, Paul Emil
Vaughan, Joan Maureen
Rivier, Jean Edouard Frederic
Perrin, Marilyn Heller

<120> Urocortin Proteins and Uses Thereof

<130> D6334

<141> 2001-08-04

<150> US 60/273,969

<151> 2001-03-07

<160> 13

<210> 1

<211> 399

<212> DNA

<213> *Homo sapiens*

<220>

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<223> DNA Sequence encoding human
Urocortin-related peptide (hURP)

<400> 1

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<211> 112

<212> PRT

<213> *Homo sapiens*

<220>

<223> Human Urocortin-related peptide (hURP)
precursor peptide

<400> 2

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Arg	Pro	Gln	Asn	Ser	Pro	Gln	Thr	Thr	Pro	Arg	Pro	Ala	Ala	Ser	35	40	45
Glu	Ser	Pro	Ser	Ala	Ala	Pro	Thr	Trp	Pro	Trp	Ala	Ala	Gln	Ser	50	55	60
His	Cys	Ser	Pro	Thr	Arg	His	Pro	Gly	Ser	Arg	Ile	Val	Leu	Ser	65	70	75
Leu	Asp	Val	Pro	Ile	Gly	Leu	Leu	Gln	Ile	Leu	Leu	Glu	Gln	Ala	80	85	90
Arg	Ala	Arg	Ala	Ala	Arg	Glu	Gln	Ala	Thr	Thr	Asn	Ala	Arg	Ile	95	100	105
Leu	Ala	Arg	Val	Gly	His	Cys									110		

<210> 3

<211> 41

<212> PRT

<213> *Homo sapiens*

<220>

<223> Human Urocortin-related peptide (hURP)

<400> 3

Ile Val Leu Ser Leu Asp Val Pro Ile Gly Leu Leu Gln Ile Leu
5 10 15
Leu Glu Gln Ala Arg Ala Arg Ala Ala Arg Glu Gln Ala Thr Thr
20 25 30
Asn Ala Arg Ile Leu Ala Arg Val Gly His Cys
35 40

<210> 4

<211> 38

<212> PRT

<213> *Homo sapiens*

<220>

<223> Amino acids 1-38 of human
Urocortin-related peptide (hURP)

<400> 4

Ile Val Leu Ser Leu Asp Val Pro Ile Gly Leu Leu Gln Ile Leu
5 10 15
Leu Glu Gln Ala Arg Ala Arg Ala Ala Arg Glu Gln Ala Thr Thr
20 25 30
Asn Ala Arg Ile Leu Ala Arg Val
35

<210> 5

<211> 40

<212> PRT

<213> *Homo sapiens*

<220>

<223> Human Urocortin (hUcn)

<400> 5

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5 10 15
 Thr Leu Leu Glu Leu Ala Arg Thr Gln Ser Gln Arg Glu Arg Ala
 20 25 30

Glu Gln Asn Arg Ile Ile Phe Asp Ser Val
 35 40

<210> 6

<211> 41

<212> PRT

<213> *Homo sapiens*

<220>

<223> Human Corticotropin Releasing Factor

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Ser Glu Glu Pro Pro Ile Ser Leu Asp Leu Thr Phe His Leu Leu
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Arg Glu Val Leu Glu Met Ala Arg Ala Glu Gln Leu Ala Gln Gln
 20 25 30

Ala His Ser Asn Arg Lys Leu Met Glu Ile Ile
 35 40

<210> 7

<211> 41

<212> PRT

<213> *Cyprinus carpio*

<220>

<223> Carp Urotensin (cUro)

<400> 7

Asn Asp Asp Pro Pro Ile Ser Ile Asp Leu Thr Phe His Leu Leu
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Arg Asn Met Ile Glu Met Ala Arg Asn Glu Asn Gln Arg Glu Gln
 20 25 30

Ala Gly Leu Asn Arg Lys Tyr Leu Asp Glu Val
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<210> 8
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<213> Unknown

<220>
<223> Frog Sauvagine (fSvg)

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Lys Met Ile Glu Ile Glu Lys Gln Glu Lys Glu Lys Gln Gln Ala
 20 25 30
Ala Asn Asn Arg Leu Leu Leu Asp Thr Ile
 35 40

<210> 9
<211> 41
<212> PRT
<213> Unknown

<220>
<223> Dogfish Corticotropin Releasing Factor/Urotensin
(dCRF/Uro)

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Pro Ala Glu Thr Pro Asn Ser Leu Asp Leu Thr Phe His Leu Leu
 5 10 15
Arg Glu Met Ile Glu Ile Ala Lys His Glu Asn Gln Gln Met Gln
 20 25 30
Ala Asp Ser Asn Arg Arg Ile Met Asp Thr Ile
 35 40

<210> 10
<211> 112
<212> PRT

<213> *Mus musculus*

<220>

<223> Mouse Urocortin II precursor peptide

<400> 10

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20 25 30
Leu Pro Gln Asn Ser Leu Glu Thr Thr Pro Ser Ser Val Thr Ser
35 40 45
Glu Ser Ser Ser Gly Thr Thr Thr Gly Pro Ser Ala Ser Trp Ser
50 55 60
Asn Ser Lys Ala Ser Pro Tyr Leu Asp Thr Arg Val Ile Leu Ser
65 70 75
Leu Asp Val Pro Ile Gly Leu Leu Arg Ile Leu Leu Glu Gln Ala
80 85 90
Arg Tyr Lys Ala Ala Arg Asn Gln Ala Ala Thr Asn Ala Gln Ile
95 100 105
Leu Ala His Val Gly Arg Arg
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<210> 11

<211> 38

<212> PRT

<213> *Mus musculus*

<220>

<223> Mouse Urocortin II

<400> 11

Val Ile Leu Ser Leu Asp Val Pro Ile Gly Leu Leu Arg Ile Leu
5 10 15
Leu Glu Gln Ala Arg Tyr Lys Ala Ala Arg Asn Gln Ala Ala Thr
20 25 30

Asn Ala Gln Ile Leu Ala His Val
35

<210> 12

<211> 38

<212> PRT

<213> *Takifugu rubripes*

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<223> Pufferfish Urocortin Related Peptide

<400> 12

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Phe Asp Val Ala Lys Ala Lys Asn Leu Arg Ala Lys Ala Ala Glu
20 25 30

Asn Ala Arg Leu Leu Ala His Ile
35

<210> 13

<211> 40

<212> PRT

<213> *Rattus norvegicus*

<220>

<223> Rat Urocortin

<400> 13

Asp Asp Pro Pro Leu Ser Ile Asp Leu Thr Phe His Leu Leu Arg
5 10 15

Thr Leu Leu Glu Leu Ala Arg Thr Gln Ser Gln Arg Glu Arg Ala
20 25 30

Glu Gln Asn Arg Ile Ile Phe Asp Ser Val
35 40